OMB Approval Number: 2050-0095 Approved for Use Through: 4/95





Site Name: EXXON SERVICE STATION #3-3558

CERCLIS ID No.:

Street Address: 936 ROUTE 202 NORTH

City/State/Zip: BRANCHBURG TOWNSHIP, NJ 08876

Investigator: NICK SODANO Agency/Organization: NJDEP/BEMSA

Street Address: 300 HORIZON CENTER, PO BOX 407

City/State: TRENTON, NJ

Date: 06/17/03

PA-Score 2.1 Scoresheets

EXXON SERVICE STATION #3-3558 - 06/17/103

WASTE CHARACTERISTICS

1 Septic Sys/Flr Drain Land treatment WQ value maximum Area 8.00E+02 sq ft 2.96E+00 2.96E+00 2 Waste Oil SpillDrain Contaminated soil WQ value maximum

Area 8.00E+02 sq ft

Waste Characteristics (WC) Calculations:

2.35E-02 2.35E-02

Page: 1

WQ total 2.99E+00

** Only First WC Page Is Printed **

Waste Characteristics Score: WC =

	Ground Water Pathway Criteria List Suspected Release					
·	Are sources poorly contained? (y/n/u)	Y				
	Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? $(y/n/u)$	Y				
	Is waste quantity particularly large? (y/n/u)	Y				
	Is precipitation heavy? (y/n/u)	Y				
	Is the infiltration rate high? (y/n/u)	Y				
	Is the site located in an area of karst terrain? (y/n)	N				
	Is the subsurface highly permeable or conductive? $(y/n/u)$	Y				
	Is drinking water drawn from a shallow aquifer? (y/n/u)	Y				
	Are suspected contaminants highly mobile in ground water? $(y/n/u)$	Y				
6	Does analytical or circumstantial evidence suggest ground water contamination? $(y/n/u)$	Y				
	Other criteria? (y/n) Y known discharge					
	SUSPECTED RELEASE? (y/n)	Y				
	Summarize the rationale for Suspected Release:					
	Known discharge from waste oil tank. Suspected discharges from floor drain and septic system. Other discharge areas on site.					
	٠. بم					

Ground Water Pathway Criteria List Primary Targets	
Is any drinking water well nearby? (y/n/u)	Y
Has any nearby drinking water well been closed? (y/n/u)	Y
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	Y
Does any nearby well have a large drawdown/high production rate? (y/n/u)	Y
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	Y
Does analytical or circumstantial evidence suggest contamination at a drinking water well? $(y/n/u)$	Y
Does any drinking water well warrant sampling? (y/n/u)	Y
Other criteria? (y/n) Y known potable contamination TCE	
PRIMARY TARGET(S) IDENTIFIED? (y/n)	Y
Summarize the rationale for Primary Targets:	
14 nearby wells have been found to have levels of volatile organic compounds in excess of federal Maximum contaminant levels.	

Page:

GROUND WATER PATHWAY SCORESHEETS

rachway Characteristics						
Do you suspect a release? (y/n) Yes						
Is the site located in karst to	Is the site located in karst terrain? (y/n) No					
Depth to aquifer (feet):	Depth to aquifer (feet):					
Distance to the nearest drinking water well (feet): 0						
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refe	rences		
1. SUSPECTED RELEASE	550					
2. NO SUSPECTED RELEASE		0	1000000000			
LR =	550	0				
Targets						
TARGETS	Suspected Release	No Suspected Release	Refer	rences		
3. PRIMARY TARGET POPULATION 25 person(s)	250					
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	0	. 0				
5. NEAREST WELL	50	0				
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0				
7. RESOURCES	5	0				
T =	305	0				
WASTE CHARACTERISTICS WC =	32	0				
.	• .	· · · · · · · · · · · · · · · · · · ·	I			
GROUND WATER PATHWAY SCORE:	(55				
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- 06/17/103

Page:

5

Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
1 Varju	0.04	10		100
2 Partak	0.04	4		40
3 Branchburg Mobil	0.04	4 .		40
4 Stamper	0.20	3		~ 30
5 Apsley	0.20	4		40
*** Note: Maximum of 5 Wells Are Printed *** Total				

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	0		0
Greater than 1 to 2 miles	0		0
Greater than 2 to 3 miles	0		0
Greater than 3 to 4 miles	0		0
		m-+-1	

Total

0

Apportionment Documentation for a Blended System

Surface Water Pathway Criteria List Suspected Release	
Is surface water nearby? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	Y
Is the drainage area large? (y/n/u)	Y
Is rainfall heavy? (y/n/u)	· N
Is the infiltration rate low? $(y/n/u)$	N
Are sources poorly contained or prone to runoff or flooding? (y/n/u) N
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y	/n/u) N
Is vegetation stressed along the probable runoff path? $(y/n/u)$	N
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? $(y/n/u)$	N
Is ground water discharge to surface water likely? (y/n/u)	Y
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u) N
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	N
Summarize the rationale for Suspected Release:	

Page: 8

<u>.</u>		
	Surface Water Pathway Criteria List Primary Targets	
	Is any target nearby? (y/n/u) If yes: Drinking water intake N Fishery Sensitive environment	N
	Has any intake, fishery, or recreational area been closed? $(y/n/u)$	N
	Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u)	N
	Does any target warrant sampling? (y/n/u) If yes: Drinking water intake N Fishery Sensitive environment	N
	Other criteria? (y/n) N	
٠.	PRIMARY INTAKE(S) IDENTIFIED? (y/n)	
	Summarize the rationale for Primary Intakes:	
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continued -----

continued	·
Other criteria? (y/n)	N
	PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N
Summarize the rationale for	Primary Fisheries:
	, , , , , , , , , , , , , , , , , , ,
· · · · · · · · · · · · · · · · · · ·	
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5. •	
Other criteria? (y/n)	N .
PRIMARY SE	NSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n)
Summarize the rationale for	Primary Sensitive Environments:
•	
,	
	•

Page: 10

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics				
Do you suspect a release? (y/n)	Do you suspect a release? (y/n) No			
Distance to surface water (feet): 0				
Flood frequency (years):		1-	-10	
a. the nearest drinks b. the nearest fisher	What is the downstream distance (miles) to: a. the nearest drinking water intake? b. the nearest fishery? c. the nearest sensitive environment? 0.0			
LIKELIHOOD OF RELEASE Release Refe			Refer	rences
1. SUSPECTED RELEASE 0				
2. NO SUSPECTED RELEASE 500				
LR = 0 500				

Page: 11

Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References	
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.				
4. PRIMARY TARGET POPULATION 0 person(s)	0			
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0		
6. NEAREST INTAKE	. 0	· 0		
7. RESOURCES	0	5		
$T = \frac{1}{2}$	0	5		

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					1
				·	

Total Primary Target Population Value
Total Secondary Target Population Value
*** Note: Maximum of 6 Intakes Are Printed ***

Apportionment Documentation for a Blended System				
·				
			•	
		•		

Page: 13

Human Food Chain Threat Targets

TARGETS /	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	0	
T =	0	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
None				
				,
	Total Total	Primary Fisheries Valu Secondary Fisheries Va	ie ilue	0

*** Note: Maximum of 6 Fisheries Are Printed ***

PA-Score 2.1 Scoresheets EXXON SERVICE STATION #3-3558

- 06/17/103

Page: 14

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	0	
. T =	0	0	***************************************

Environmental Threat Targets

<i>\$</i>	Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
- <u></u>	None			,	
					,
	Total Primary Sensitive Environments Value Total Secondary Sensitive Environments Value *** Note: Maximum of 6 Sensitive Environments Are Printed ***				

Page: 15

Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score		Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	5	18	1
Human Food Chain	500	0	18	0
Environmental	500	0 -	18	0

1					ĺ
SURFACE	WATER	PATHWAY	SCORE:	1	ı

	posure Pathw Resident Pop	way Criteria Li Sulation	st	
Is any residence, school within 200 feet of an				1
Is any residence, school land previously owned	or daycare or leased by	facility loca the site owne	ted on adjacent er/operator? (y/n/u)	N
Is there a migration rou substances near reside	te that migh nces, school	t spread hazar s, or daycare	dous facilities? (y/n/u)	. 1
Have onsite or adjacent health effects, exclus contamination problems	ive of appar	students repo ent drinking w	orted adverse vater or air	1
	-		-	
Does any neighboring pro	perty warran	.t sampling? (y	/n/u)	1
Other criteria? (y/n)	N 			
	\		•	
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Page: 17

SOIL EXPOSURE PATHWAY SCORESHEETS

DOID BRIODORD TAIL	IMAI SCORESIEE.			
Pathway Characteristics				Ref.
Do any people live on or within of areas of suspected contami			No	
Do any people attend school or of areas of suspected contamin	daycare on or w	within 200 ft	No	
Is the facility active? (y/n):	,		Yes	
LIKELIHOOD OF EXPOSURE	Suspected Contamination	References		
1. SUSPECTED CONTAMINATION LE =	550			
Targets			1	
2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0			
3. RESIDENT INDIVIDUAL	0			
4. WORKERS None	0			
5. TERRES. SENSITIVE ENVIRONMENTS	0			
6. RESOURCES	0			
T =	0			
WC =	18	হ		
RESIDENT POPULATION THREAT SCORE:	0			
TEARBY POPULATION THREAT SCORE: Population Within 1 Mile: 1 - 10,0	1			
OIL EXPOSURE PATHWAY SCORE:	1			

- 06/17/103

Page: 18

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
	·	
•		
·		
Total Terrestrial Sensitive Environm		

*** Note: Maximum of 7 Sensitive Environments Are Printed ***

EXXON SERVICE STATION #3-3558 - 06/17/103	
Air Pathway Criteria List Suspected Release	
Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? $(y/n/u)$	N
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	, N
Does analytical/circumstantial evidence suggest release to air? $(y/n/u)$	N
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	N
Summarize the rationale for Suspected Release:	

Page: 20

AIR PATHWAY SCORESHEETS

Pathway Characteristics				
Do you suspect a release? (y/n))	No)	
Distance to the nearest individ	Distance to the nearest individual (feet):			
		· _		
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refer	rences
1. SUSPECTED RELEASE	0			
2. NO SUSPECTED RELEASE		500		
LR =	0	500		
Targets			,	
TARGETS	Suspected Release	No Suspected Release	Refer	rences
3. PRIMARY TARGET POPULATION 0 person(s)	0			
4. SECONDARY TARGET POPULATION	0	20		
5. NEAREST INDIVIDUAL	0.	20		
6. PRIMARY SENSITIVE ENVIRONS.	0			
7. SECONDARY SENSITIVE ENVIRONS.	0	0		
8. RESOURCES	0	.5		
T =	0	45		
WASTE CHARACTERISTICS				
WC =	0	18		
`		-	, I	
AIR PATHWAY SCORE:		5		

Page: 21

Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	3	·	1
Greater than 0 to 1/4 mile	150 ,		4
Greater than 1/4 to 1/2 mile	525		3
Greater than 1/2 to 1 mile	1000		1
Greater than 1 to 2 miles	9114		3
Greater than 2 to 3 miles	6677		1
Greater than 3 to 4 miles	32237		7
	Total Secondary Popula	ation Value	20

Page: 22

Air Pathway Primary Sensitive Environments

Sensitive Environment Name		Reference	Value
None			
		-	
Total Primary Sensitive *** Note : Maximum of 7 Sensitive Environme	e Environmen	nts Value	
ir Pathway Secondary Sensitive Environments		;	
Sensitive Environment Name	Distance	Reference	Value
None			
	1		

Total Secondary Sensitive Environments Value

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE;	65
SURFACE WATER PATHWAY SCORE:	1
SOIL EXPOSURE PATHWAY SCORE:	1
AIR PATHWAY SCORE:	5
SITE SCORE:	33

SUMMARY

1.	Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water?	er No
	If yes, identify the well(s).	
	If yes, how many people are served by the threatened well(s)? 0	
2.	Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water? A. Drinking water intake B. Fishery	No No
	C. Sensitive environment (wetland, critical habitat, others)	No
	If yes, identity the target(s).	
3.	Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility?	No
	If yes, identify the properties and estimate the associated populat	ion(s)
4.	Are there public health concerns at this site that are not addressed by PA scoring considerations?	No
	If yes, explain:	

Page: 25

REFERENCE LIST

PA-Score 2.1 Scoresheets EXXON SERVICE STATION #3-3558

- 06/17/103

OMB Approval Number: 2050-0095 Approved for Use Through: 4/95

POTENTIAL HAZARDOUS					IDENTIFICATION			
					State: CERCLIS Nu		ımber:	
WASTE SIT	3				NJ 			
PRELIMINA	RY ASSESSMENT	FORM			CERCLIS Discovery Date: 06/17/03			
1. General Site	Information		`.					
Name: EXXON SERVICE ST	8	Street Address: 936 ROUTE 202 NORTH						
City: BRANCHBURG TOWNS	SHIP	State: NJ	Zip Co 08876	ode:	County: USA		Co. Code: 18	Cong. Dist: 12
Latitude: Longitude: Approx. 40° 33' 50.0" 74° 40' 52.0"			Area of 1 acre		e: Status of Site: Active			
2. Owner/Operator Information								
Owner: EXXONMOBIL CORPORATION			Operator: EXXONMOBIL CORPORATION					
Street Address: 936 ROUTE 202 NORTH			Street Address: 1900 E. LINDEN AVE, PO BOX 730					
City: BRANCHBURG			City: *					
State: Zip Code NJ 08869	: Telephon	e:	State: NJ	Zip 07036	Code:		phone:	537
Type of Ownership: Private			How Initially Identified: State/Local Program					

Page: 2

PA-Score 2.1 Scoresheets
EXXON SERVICE STATION #3-3558 - 06/17/103

POTENTIAL HAZARDOUS				IDENTIFICATION			
WASTE SITE				State: NJ	e: CERCLIS Number		
PRELIMINARY ASSESSMENT FORM				CERCLIS Discovery Date: 06/17/03			
3. Site Evaluator Inf	ormation						
Name of Evaluator: NICK SODANO Agency/C NJDEP/E				anization: SA	Date Prepared: 06/17/03		
Street Address: 300 HORIZON CENTER, PO BOX 407			Cit	EY: RENTON			State: NJ
Name of EPA or State Agency Contact: WILLIAM LOWRY				Telephone: 609-584-4271			
Street Address: SEE ABOVE			Cit	City: Stat			
4. Site Disposition (for EPA use only)							
Emergency Response/Removal Assessment Recommendation: No	CERCLIS Recommendation: Higher Priority		SI	Signatur Name:	re:		
Date: 6/17/03	Date: 6	5/17/03		Position	1:		

PA-Score 2.1 Scoresheets EXXON SERVICE STATION #3-3558

eets Page: 3

IDENTIFICATION POTENTIAL HAZARDOUS CERCLIS Number: State: WASTE SITE NJ PRELIMINARY ASSESSMENT FORM CERCLIS Discovery Date: 06/17/03 5. General Site Characteristics Predominant Land Uses Within Site Setting: Years of Operation: 1 Mile of Site: Beginning Year: 1967 Commercial Suburban Residential Ending Year: 2003 Type of Site Operations: Waste Generated: Other: Onsite Auto service station, clean Waste Deposition Authorized By: Present Owner Waste Accessible to the Public No Distance to Nearest Dwelling, School, or Workplace: 300 Feet 6. Waste Characteristics Information Source Type Quantity Tier General Types of Waste: Land treatment 8.00e+02 sq ft A Solvents Contaminated soil 8.00e+02 sq ft Physical State of Waste as Deposited Liquid Tier Legend C = Constituent W = Wastestream V = Volume A = Area

1

POTENTIAL HAZARD	IDi	IDENTIFICATION			
WASTE SITE	State: NJ	CERCLIS	Number:		
PRELIMINARY ASSE		CERCLIS Discovery Date: 06/17/03			
7. Ground Water Pathway					
Is Ground Water Used for Drinking Water Within 4 Miles: Yes	Is There a Suspected Release to Ground Water: Yes	Population	ondary Tar on Served ater Withd	by	
Type of Ground Water Wells Within 4 Miles: Private	Have Primary Target Drinking Water Wells Been Identified: Yes Primary Target	0 - 1, >1/4 - 1, >1/2 - 1		0 0 0	
Depth to Shallowest Aquifer: 0 Feet	Population: 25	>1 - 2		0	
Karst Terrain/Aquifer Present: No	Nearest Designated Wellhead Protection Area: None within 4 Miles		Miles	0	

Page: 5

IDENTIFICATION POTENTIAL HAZARDOUS CERCLIS Number: State: WASTE SITE NJ PRELIMINARY ASSESSMENT FORM CERCLIS Discovery Date: 06/17/03 8. Surface Water Pathway Part 1 of 4 Type of Surface Water Draining Shortest Overland Distance From Any Site and 15 Miles Downstream: Source to Surface Water: Other: no surface water nearby Feet 0.0 Miles Is there a Suspected Release to Site is Located in: Surface Water: No Annual - 10 yr floodplain 8. Surface Water Pathway Part 2 of 4 Drinking Water Intakes Along the Surface Water Migration Path: Have Primary Target Drinking Water Intakes Been Identified: No Secondary Target Drinking Water Intakes:

Page:

POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

CERCLIS Discovery Date:
06/17/03

8. Surface Water Pathway

None

Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: No Have Primary Target Fisheries Been Identified: No Secondary Target Fisheries:

8. Surface Water Pathway

Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) No
Have Primary Target Wetlands Been Identified? (y/n) No
Secondary Target Wetlands:
None

Other Sensitive Environments Along the Surface Water Migration Path: No Have Primary Target Sensitive Environments Been Identified: No Secondary Target Sensitive Environments:

None

IDENTIFICATION CERCLIS Number: State: NJ

Page: 7

WASTE SITE PRELIMINARY ASSESSMENT FORM

POTENTIAL HAZARDOUS

CERCLIS Discovery Date: 06/17/03

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination: No

Number of Workers Onsite: None

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

Total Population on or Onsite	Within:	Is There a Suspected Release to Air:	No
0 - 1/4 Mile >1/4 - 1/2 Mile >1/2 - 1 Mile	150 525 1000	Wetlands Located Within 4 Miles of the Site:	No
>1 - 2 Miles >2 - 3 Miles >3 - 4 Miles Totál	9114 6677 32237 49706	Other Sensitive Environments Located Within 4 Miles of the Site:	No

Sensitive Environments Within 1/2 Mile of the Site: None